HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT, 9"	
HOT-MIX ASPHALT SURFACE COURSE, MIX " C" , N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 7"	4% @ 50 GYR.
STABILIZED DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX " C" , N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HOT-MIX ASPHALT BINDER IL-19 mm) N50; PE - 6", CE - 8"	4% @ 50 GYR.
SHOULDER RECONSTRUCTION	
HOT-MIX ASPHALT SHOULDERS (HMA BINDER IL-19mm), 6"	2% @ 30 GYR.
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm); 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 7"	4% @ 50 GYR

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22 AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS." FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

STRUCTURAL DESIGN DATA

STREET	STRUCTURAL DESIGN TRAFFIC 2021			STREET CLASS	TRAFFIC FACTOR	SSR	TEMP	STRAIN	AC	EAC	REQ'D BIT THICKNESS	MECHANISTIC PAVEMENT DESIGN
	PV	SU	MU									
UNION ROAD	2,066	168	168	IV	0.83	POOR	76° F	112	PG 64-28	650	9.0 IN	2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 7" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 12" AGGREGATE SUBGRADE

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CHARLES B. DUNCAN, PROFESSIONAL ENGINEER
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BAXTER & WOODMAN Consulting Engineers

DESIGNED - CAC	REVISED - PER IDOT 10-08-10	MCHENRY COUNTY DIVISION OF TRANSPORTATION UNION ROAD BRIDGE OVER SOUTH BRANCH OF KISHWAUKEE RIVER	PROPOSED TYPICAL SECTION NOTES
DRAWN - BCD	REVISED -		
CHECKED - MDW	REVISED -		SCALE: NONE STA. TO STA.
DATE - 08/20/10	FILE - 070630-TypSecNotes.sht		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0034	06-00320-02-BR	MCHENRY	65	9
		CONTRACT NO. 63536		
JOB NO. C-91-140-11	ILLINOIS FED. AID PROJECT	BRS-0034(107)		